

# Camera

## BACKGROUND OF THE INVENTION

### 5 1. Field of the Invention

The present invention relates to a camera, more particularly relates to a camera whose electric circuit is not affected by electrostatic noise.

### 10 2. Explanation of the Prior Arts

Most of the cameras that have been put on the market are provided with an automatic focusing device, an motor driven zoom device, an automatic wind device and so forth, which are controlled by respective electric circuits. Each electric circuit often generates electrostatic noise by electrostatic induction from outside of the camera. When the electrostatic noise occurs, the device malfunctions or, possibly, becomes uncontrollable. To prevent the effect of the electrostatic noise, a negative pole of a battery or an earth line of an electric circuit for driving the electric circuit are connected to a conductive and large-volume member.

According to the camera as mentioned in Japanese Patent Laid-open Publication No.11-174550, for instance, a cover covering a main body with a taking mechanism is made from conductive aluminum. A flexible board on which the electric circuit is mounted is screwed on the cover so as to contact with a conductive pattern of the flexible board. The conductive pattern is connected with the earth line of the electric

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circuit.

The flexible board is disposed close to the aluminum cover in the camera. Therefore, by screwing them down, it is electrically possible to contact the earth line of the electric circuit with the cover.

In case the electric circuit is formed on the hard circuit board such as an epoxy plastic, however, it is difficult to connect the circuit board with the cover electrically. Although it is possible to attach the flexible board for connecting with the circuit board, the flexible board is expensive, which causes a cost increase in camera.

#### **SUMMARY OF THE INVENTION**

An object of the present invention is to provide a camera that can connect a negative pole of a battery to a cover having a ground function.

Another object of the present invention is to provide a camera that has simple structure and can prevent from generating an electrostatic noise in an electric circuit.

To attain the above objects and the other object, a battery contact member which contacts with the negative pole of the battery forms an arm for touching with the inner wall of a cover. The cover has conductivity and covers at least a part of a main body incorporating a taking mechanism. The battery contact member is made of a metal sheet and the arm contacts with the cover by its elasticity.

The top of the main body has a battery chamber, to which

the battery contact member is secured. The arm of the battery contact member that extends towards the cover in slanting state. The tip part of the arm is bended to form a contact part. As the tip of the arm is lowered down so as to keep away from the 5 cover, it is unlikely to strike the edge of the cover while attaching the cover. When the contact part is pushed by the cover member, the arm is elastically deformed. Consequently an appropriate contact pressure is applied to contact the contact part with the cover member.

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#### BRIEF DESCRIPTION OF THE DRAWINGS

15 The above and other objects, and advantages of the present invention will become apparent from the following detailed description of the preferred embodiments when read in association with the accompanying drawings, which are given by way of illustration only and thus are not limiting the present invention:

20 Figure 1 is an exterior perspective view illustrating a camera of the present invention;

Figure 2 is an exploded perspective view of a camera illustrated by Fig.1;

Figure 3 is an exploded view of structure of a battery chamber;

25 Figure 4 is a vertical sectional view of an essential part of camera of the present invention; and

Figure 5 is a transverse sectional view of an essential part of camera of the present invention.